

## REMARKS

Claims 47-114 are now pending in the application. Minor amendments have been made to the claims to simply overcome the rejections of the claims under 35 U.S.C. § 112. The Examiner is respectfully requested to reconsider and withdraw the rejections in view of the amendments and remarks contained herein.

### REJECTION UNDER 35 U.S.C. § 112

Claims 47-114 are rejected under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement. This rejection is respectfully traversed.

The Examiner alleges that the recitation "independent of other ones of the plurality of amplifier cells" is not supported in the original specification and drawings. Applicants respectfully disagree. Applicants amended the claims to remove this limitation in the interests of expediting prosecution.

### REJECTION UNDER 35 U.S.C. § 102

Claims 47-114 are rejected under 35 U.S.C. § 102(b) as being anticipated by Hisatu, Altmann et al, Hotta and Andricos (U.S. Pat. Nos. 3,617,855; 5,708,391; 5,291,452; and 4,598,252). Claims 47-114 are rejected under 35 U.S.C. § 102(b) as being anticipated by Kornfeld et al. (U.S. Pat. No. 5,974,041). These rejections are respectfully traversed.

With respect to claim 47, the cited prior art references fail to show, teach, or suggest at least **an adjustable capacitance that is connected to the output of each**

**of the plurality of amplifier cells.** The cited prior art references appear to be absent of any teaching or suggestion of an adjustable capacitance as recited.

For anticipation to be present under 35 U.S.C §102(b), there must be no difference between the claimed invention and the reference disclosure as viewed by one skilled in the field of the invention. Scripps Clinic & Res. Found. v. Genentech, Inc., 18 USPQ.2d 1001 (Fed. Cir. 1991). All of the limitations of the claim must be inherent or expressly disclosed and must be arranged as in the claim. Constant v. Advanced Micro-Devices, Inc., 7 USPQ.2d 1057 (Fed. Cir. 1988). Here, the cited prior art references fail to disclose the limitation of **an adjustable capacitance that is connected to the output of each of the plurality of amplifier cells.**

As shown in exemplary embodiments in FIGS. 2 and 4 of the present application, a plurality of amplifier cells 61, 63, and 65 are connected in parallel. Each of the plurality of amplifier cells 61, 63, and 65 is selectively controlled via a controllable current signal received from a controllable current source 45. As such, Applicants respectfully note that the transconductance of each of the plurality of amplifier cells is selectively controllable. As shown in FIG. 2 of the present application, outputs of each of the plurality of amplifier cells 61, 63, and 65 are connected to adjustable capacitances such as capacitive components 27 and 29. The capacitances are adjustable as described in Column 2, Lines 16-48. In other words, transconductance and capacitance are adjustable to accurately control a transconductance to capacitance ratio as described in Column 3, Lines 19-28).

In contrast, the cited prior art references fail to disclose an adjustable capacitance connected to the output of each of the plurality of amplifier cells. For

example, the Examiner relies on FIG. 5 of Kornfeld. Applicants respectfully note that Kornfeld appears to be absent of any teaching or suggestion of an adjustable capacitance arranged as Applicants' claims recite. Applicants respectfully submit that Hisatu, Altmann, Hotta, and Andricos appear to be similarly absent of any teaching or suggestion of an adjustable capacitance according to Applicants' claims.

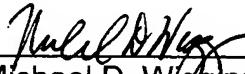
In view of the foregoing, Applicants respectfully submit that claim 47, as well as its dependent claims, should be allowable for at least the above reasons. The remaining independent claims, as well as their corresponding dependent claims, should be allowable for at least similar reasons.

CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office Action and the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

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